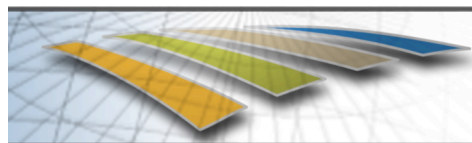


Landsat Data Continuity Mission Mission Operations Element Industry Day

January 4, 2008

Bill Ochs

LDCM Project Manager



OLI Industry Day Agenda

LDCM

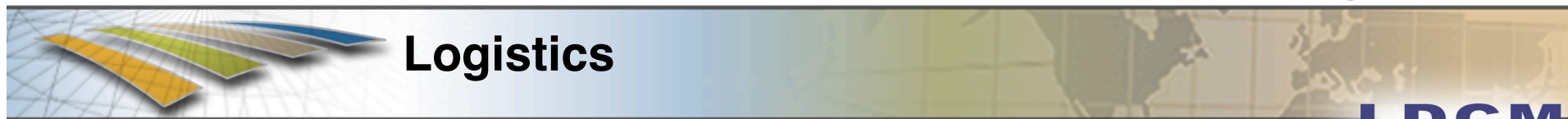
- | | | |
|--|--------------|-------|
| • Welcome/Introduction | Bill Ochs | 9:00 |
| • Landsat Overview | Jim Irons | 9:15 |
| • USGS EROS Overview | Mike Headley | 9:30 |
| • LDCM Mission, Ops Con and MOE Overview | Steve Coyle | 9:45 |
| • RFP Overview | Vicki Dulski | 10:05 |
| • Open Q&A | Bill Ochs | 10:25 |
| • Break | | 10:35 |
| • One-on-One Sessions begin | | 10:45 |



Welcome/Introduction

Bill Ochs

LDCM Project Manager



- **Food**
 - Morning - breakfast refreshments provided
 - Lunch – your on your own
 - Afternoon – snacks provided

- **Copies of presentation not provided**
 - Presentations will be posted to web site January 7th

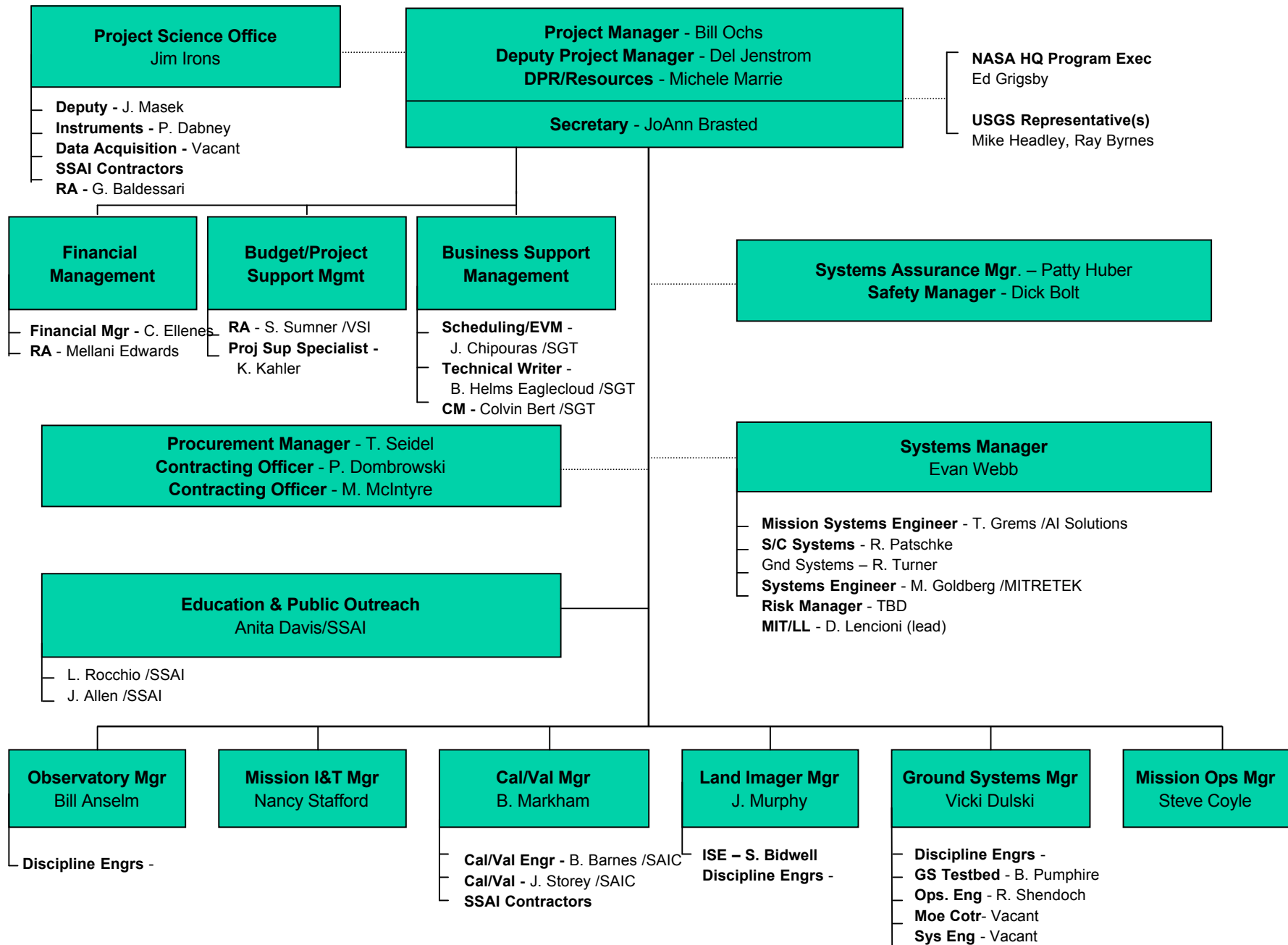


Ground Rules for meeting

LDCM

- Information provided today through this meeting or answers provided to questions are not considered official. All information is only considered official when it is contained in the Contracting Officer's release of the Final RFP or releases of the Government's official response to questions received regarding the Final RFP.
- Responses to questions that affect the RFP package received during Industry Day and prior to release of Final RFP, will be posted anonymously to the NASA Acquisition Internet Service (NAIS).
- Blackout period begins following release of the Final RFP. Any communication should be directed to the Contracting Officer. Questions about the RFP should be submitted in writing to the Contracting Officer. The questions will be answered and be made available through NAIS.

LANDSAT DATA CONTINUITY MISSION - CODE 427

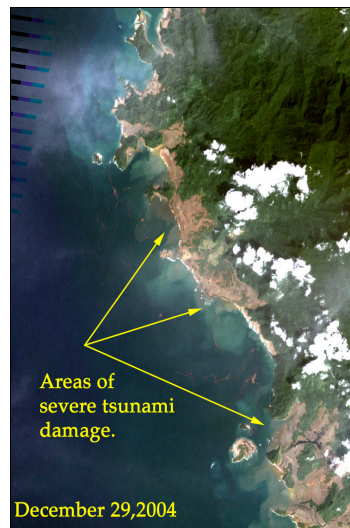


LDCM Overview

LDCM

Mission Objectives

- Provide continuity in the multi-decadal Landsat land surface observations to study, predict, and understand the consequences of land surface dynamics
 - Land cover/use change
 - Human settlement and population
 - Ecosystem dynamics
 - Landscape scale carbon stocks
 - Resource management/societal needs



Landsat 7 data used to aid Indonesian government with tsunami relief efforts (David Skole, Michigan State University)

LDCM Data Needed to Address NASA Earth Science Focus Areas, Questions, and Applications

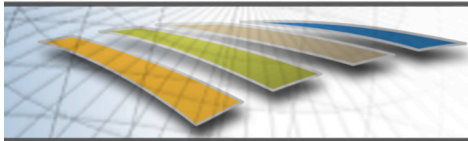
Focus Areas	Science Questions
<ul style="list-style-type: none"> • Carbon Cycle, Ecosystems, & Biogeochemistry • Water & Energy Cycle • Earth Surface & Interior 	<ul style="list-style-type: none"> - What are the changes in global land cover and land use, and what are their causes? - How do ecosystems, land cover & biogeochemical cycle respond to and affect environmental change? - What are the consequences of land cover and land use change for human societies and the sustainability of ecosystems ? - What are the consequences of increased human activities on coastal regions?

Instrument(s)

- Multi-spectral imaging sensor - BATC
- Thermal Infrared Sensor – TBD
- Total Solar Irradiance Sensor - TBD

Gov't Partners

- NASA Goddard Space Flight Center
- Dept. of Interior's United States Geological Survey (USGS)



NASA/USGS Partnership

LDCM

- **NASA and DOI USGS are identified as the Landsat Program Management team under authority of U.S. Code Title 15, Chapter 82, “Land Remote Sensing Policy” and Presidential Decision Directive NSTC-3, “Land Remote Sensing Strategy,”**
- **NASA Responsibilities**
 - **Development of**
 - Space Segment, Launch Segment, and the Mission Operations Element (MOE)
 - **Serve as the system integrator for the entire LDCM and lead the missions systems engineering effort**
 - **Lead Mission Operations through the completion of the on-orbit checkout period**
- **USGS Responsibilities**
 - **Development of**
 - Ground System (comprised of the Flight Operations and Data Processing and Archive Segments), excluding procurement of the MOE
 - **LDCM mission operations, after the completion of the on-orbit checkout period**
 - **Accept and execute all responsibilities associated with the transfer of the LDCM Operational Land Imager (OLI) instrument, spacecraft bus and Mission Operations Element contracts from NASA following on-orbit acceptance of the LDCM system including assuming contract management**



Procurement Timeline

**LDCM**

Procurement Activity	Completion Date
Industry Day	1/4/08
RFP Release	1/30/08
Proposals Due	2/29/08 (30 days after RFP release)
Final Evaluation	6/1/08
Award	6/11/08

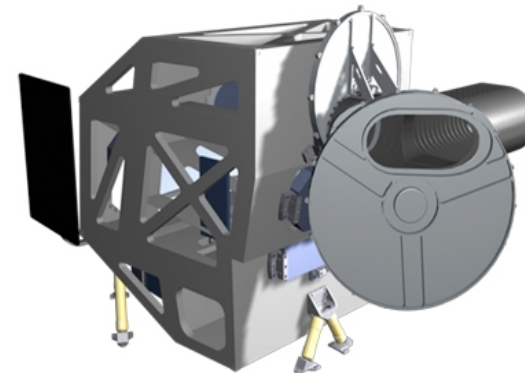


Project Status

LDCM

- **Operational Land Imager**

- **RFP released – Jan. 07**
- **Contract awarded – July 07**
 - Ball Aerospace and Technology Corporation
 - 39 month development schedule
- **OLI SRR and IBR have been successfully completed**
- **Numerous peer reviews conducted**
- **Optics light-weighting in progress**



- **RSDO Spacecraft**

- **S/C Accommodation Studies Awarded – May 1st 2007**
 - Ball, General Dynamics, Space Systems Loral, Orbital Sciences Corporation awarded study contracts
 - Studies completion Sept. 30, 2007
- **Final RSDO RFO released December 7, 2007**
- **Proposals due February 6, 2008**
- **Contract award in early Spring 2008 timeframe**

- **Ground System**

- **Successful GS SRR conducted – Sept. 26-27**

- **Launch Vehicle**

- **Atlas V selected in Sept.**